



SEQUENCE LISTING

<110> Sebald, Walter

<120> Polypeptide Variants With Increased Heparin-Binding Ability

<130> PA31187-01996/GRI

<140> US 09/913,467

<141> 2000-01-27

<150> DE 199 06 096.7

<151> 1999-02-13

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 6

<212> PRT

<213> Artificial sequence

<220>

<221> MUTAGEN

<222> (1)

<223> K, R or H

<220>

<221> MUTAGEN

<222> (2)

<223> K, R or H

<220>

<221> MUTAGEN

<222> (3)

<223> K, R, H or no amino acid

<220>

<221> MUTAGEN

<222> (4)

<223> not K, R, H, but any other amino acid

<220>

<221> MUTAGEN

<222> (5)

<223> not K, R, H, but any other or no amino acid

<220>

<221> MUTAGEN

<222> (6)

<223> not K, R, H, but any other or no amino acid

<220>

<223> description artificial sequence: artificial sequence

<400> 1  
Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 2  
<211> 6  
<212> PRT  
<213> Artificial sequence

<220>  
<223> description artificial sequence: artificial sequence

<220>  
<221> MUTAGEN  
<222> (1)  
<223> K, R or H

<220>  
<221> MUTAGEN  
<222> (2)  
<223> not K, R, H, but any other amino acid

<220>  
<221> MUTAGEN  
<222> (3)  
<223> K, R or H

<220>  
<221> MUTAGEN  
<222> (4)  
<223> not K, R, H, but any other amino acid

<220>  
<221> MUTAGEN  
<222> (5)  
<223> not K, R, H, but any other or no amino acid

<220>  
<221> MUTAGEN  
<222> (6)  
<223> not K, R, H, but any other or no amino acid

<400> 2  
Xaa Xaa Xaa Xaa Xaa Xaa  
1 5

<210> 3  
<211> 4  
<212> PRT  
<213> Artificial sequence

<220>  
<223> description artificial sequence:  
heparin-binding sequence

<400> 3  
Arg Lys Arg Ala  
1

<210> 4  
<211> 8  
<212> PRT  
<213> Artificial sequence

<220>  
<223> description artificial sequence:  
heparin-binding sequence

<400> 4  
Arg Lys Arg Ala Lys His Lys Gln  
1 5

<210> 5  
<211> 120  
<212> PRT  
<213> Artificial sequence

<220>  
<223> description artificial sequence: T3

<400> 5  
Met Ala Gln Ala Lys His Lys Gln Arg Lys Arg Ala Arg Lys Arg Leu  
1 5 10 15

Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val Asp Phe Ser Asp Val  
20 25 30

Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr His Ala Phe Tyr  
35 40 45

Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His Leu Asn Ser Thr  
50 55 60

Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val Asn Ser Lys Ile  
65 70 75 80

Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu  
85 90 95

Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn Tyr Gln Asp Met  
100 105 110

Val Val Glu Gly Cys Gly Cys Arg  
115 120

<210> 6  
<211> 124  
<212> PRT  
<213> Artificial sequence

<220>

<223> description artificial sequence:T4

<400> 6

Met Ala Gln Ala Lys His Lys Gln Arg Lys Arg Ala Lys His Lys Gln  
1 5 10 15  
Arg Lys Arg Leu Lys Ser Ser Cys Lys Arg His Pro Leu Tyr Val Asp  
20 25 30  
Phe Ser Asp Val Gly Trp Asn Asp Trp Ile Val Ala Pro Pro Gly Tyr  
35 40 45  
His Ala Phe Tyr Cys His Gly Glu Cys Pro Phe Pro Leu Ala Asp His  
50 55 60  
Leu Asn Ser Thr Asn His Ala Ile Val Gln Thr Leu Val Asn Ser Val  
65 70 75 80  
Asn Ser Lys Ile Pro Lys Ala Cys Cys Val Pro Thr Glu Leu Ser Ala  
85 90 95  
Ile Ser Met Leu Tyr Leu Asp Glu Asn Glu Lys Val Val Leu Lys Asn  
100 105 110  
Tyr Gln Asp Met Val Val Glu Gly Cys Gly Cys Arg  
115 120

<210> 7

<211> 374

<212> DNA

<213> Artificial sequence

<220>

<223> description artificial sequence:T3  
(nucleic acid sequence)

<400> 7

ccatggctca agccaaacac aaacagcgga aacgcgctcg taaacgtctt aagtccagct 60  
gtaagagaca ccctttgtac gtggacttca gtgacgtggg gtggaatgac tggattgtgg 120  
ctccccggg gtatcacgcc ttttactgcc acggagaatg cccttttcct ctggctgac 180  
atctgaactc cactaatcat gccattgttc agacgttggg caactctgtt aactctaaga 240  
ttcctaaggc atgctgtgtc ccgacagaac tcagtgttat ctgatgctg taccttgacg 300  
agaatgaaa gggtgtatta aagaactatc aggacatggg tgtggagggt tgtgggtgtc 360  
gctagtaagg atcc 374

<210> 8

<211> 386

<212> DNA

<213> Artificial sequence

<220>

<223> description artificial sequence: T4  
(nucleic acid sequence)

<400> 8

ccatggctca agccaaacac aaacagcgga aacgcgctaa gcataagcaa cgtaagcgtc 60  
ttaagtccag ctgtaagaga caccctttgt acgtggactt cagtgtgacgtg ggggtggaatg 120  
actggattgt gggtcccccg ggggtatcacg ccttttactg ccacggagaa tgcccttttc 180

ctctggctga tcactgaac tccactaatc atgccattgt tcagacgttg gtcaactctg 240  
ttaactctaa gattcctaag gcatgctgtg tcccgaacaga actcagtgt atctcgatgc 300  
tgtaccttga cgagaatgaa aaggttgat taaagaacta tcaggacatg gttgtggagg 360  
gttgtgggtg tcgctagtaa ggatcc 386

<210> 9

<211> 47

<212> DNA

<213> Artificial sequence

<220>

<223> description artificial sequence: artificial

<400> 9

catggctcaa gccaaacaca aacagcggaa acgcgctcgt aaacgtc 47

<210> 10

<211> 47

<212> DNA

<213> Artificial sequence

<220>

<223> description artificial sequence: artificial

<400> 10

ttaagacgtt tacgagcgcg tttccgctgt ttgtgtttgg cttgagc 47

<210> 11

<211> 59

<212> DNA

<213> Artificial sequence

<220>

<223> description artificial sequence: artificial

<400> 11

catggctcaa gccaaacaca aacagcggaa acgcgctaag cataagcaac gtaagcgtc 59

<210> 12

<211> 59

<212> DNA

<213> Artificial sequence

<220>

<223> description artificial sequence: artificial

<400> 12

ttaagacgct tacgttgctt atgcttagcg cgtttccgct gtttgtgttt ggcttgagc 59